

REMARKS

This is responsive to the Office Action mailed on March 2, 2006. Specifically, the Office Action objected to the drawings "because the drawing should include legends for items 1-7". A replacement sheet for the only Figure in this application is enclosed. The replacement sheet includes the legends. The legends are taken from page 2 of the specification, lines 13-17.

Also, the specification has been amended to include the subheading "Brief Description of the Drawings". A brief description is included.

No new matter has been added and therefore, it is requested that the objection to the drawings and to the specification be removed.

The Office Action also provisionally rejected claims 1 and 2 under 35 U.S.C. § 101 as claiming the same invention as that of claims 1 and 2 of co-pending Application No. 10/797,944.

Enclosed with this response is a copy of an Express Abandonment which was mailed on April 4, 2006. Applicant's attorney has also reviewed Public PAIR, and the status of that application is "Expressly Abandoned -- During Examination". Therefore, it is requested that the provisional rejection be removed.

The Office Action rejected claims 1 and 2 as being anticipated by the Bakhtiari et al. U.S. Patent No. 5,886,534. The Office Action alleges that the Bakhtiari et al. patent discloses a method of generation in homodyne detection referring to Figure 6 and column 9, lines 37-42.

Claim 1 has been amended to more specifically define the present invention. The invention is now defined in amended independent claim 1 as "signals from a single microwave antenna that both radiates to and receives signals reflected from an inspected object are used for inspection."

New dependent claim 3 which depends from independent claim 1 further defines the invention stating that the signals from the microwave antenna are received by the waveguide T-connection.

In contrast, the Bakhtiari et al. patent describes a differential detector system in which transmitter power from the GDO 30 is split into equal parts with identical amplitude and phase transmitted through two antennas. The magnetic T 92 of Bakhtiari et al. is used in an entirely different way than the waveguide T-connection as now defined in claim 1 of the present invention.

In the method of claim 1 signals from the single microwave antenna are received by the waveguide T-connection. In view of the above, it is respectfully requested that the rejection of claim 1 be withdrawn and the claim allowed along with new dependent claim 3.

The Office Action also rejected claim 2 as being anticipated by the Bakhtiari et al. patent. Claim 2 has also been amended to state that the detection system includes a single microwave antenna that both radiates to and receives signals from an inspected object and the antenna being connected to the waveguide T-connection. Again, the Bakhtiari et al. patent utilizes the hybrid coupler 92 in an entirely different manner by splitting power to two different antennas.

In view of the amendment to claim 2, it is respectfully requested that that rejection be withdrawn.

In view of the above, it is respectfully requested that a Notice of Allowance be issued for all of the claims in the application.

The Director is authorized to charge any fee deficiency required by this paper or credit any overpayment to Deposit Account No. 23-1123.

Respectfully submitted,

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